

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-119631

(43)Date of publication of application : 09.05.1995

(51)Int.Cl.

F04B 27/08

F04B 49/00

F16K 3/22

(21)Application number : 06-200688

(71)Applicant : NIPPONDENSO CO LTD

(22)Date of filing : 25.08.1994

(72)Inventor : SAKAI TAKESHI  
SAEKI MANABU  
NAKAJIMA MASAFUMI

(30)Priority

Priority number : 05211810

Priority date : 26.08.1993

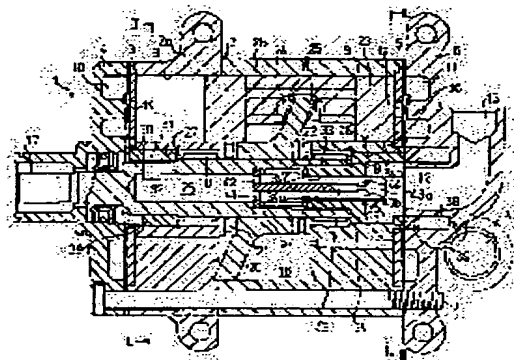
Priority country : JP

## (54) SWASH PLATE TYPE VARIABLE DISPLACEMENT COMPRESSOR

(57)Abstract:

PURPOSE: To downsize a variable displacement mechanism in the whole of a compressor, and to reduce the cost.

CONSTITUTION: A rotary valve 29 arranged on the left and a slide rotary valve 34 arranged on the right are rotated with a rotary shaft 17, and the fluid is sucked from a suction port 12 to cylinders 8, 9 in the process of suction. In the case where a discharge quantity is set at 100%, the fluid to be compressed is sucked over the whole of the process of suction, but in the case where discharge quantity is set at a value less than 100%, a pressure control device 40 reduces the pressure of the fluid of a controlled pressure chamber 38, and the valve 34 is pushed by a coil spring 37 to move to the right, and a control valve 44 provided between the valve 34 and a fixed inner valve 43 is closed to reduce the suction quantity of the left side to 0, and the whole of the discharge quantity is set at 50%. Furthermore, when the valve 34 is moved to the right, communication period with a right suction port is reduced in response to the shape of a valve opening 35, discharge quantity of the right side is reduced. Starting shock is prevented by providing a bypass groove by the valve opening 35.



---

**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision  
of rejection]

[Kind of final disposal of application  
other than the examiner's decision of  
rejection or application converted  
registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's  
decision of rejection]

[Date of requesting appeal against  
examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office